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## Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

## SECTION 1: Identification of the substance/mixture and of the company/ undertaking

#### 1.1. Product identifier

Trade name/designation:

## RAVENOL RCS Racing Competition Synto SAE 5W-40

Article No.: 1141090

## **1.2. Relevant identified uses of the substance or mixture and uses advised against** Use of the substance/mixture:

Lubricant

### \* 1.3. Details of the supplier of the safety data sheet

#### Supplier (manufacturer/importer/only representative/downstream user/distributor): Ravensberger Schmierstoffvertrieb GmbH

Produktsicherheit Jöllenbecker Str. 2 33824 Werther Germany **Telephone:** +49 5203 9719 0 **Telefax:** +49 5203 9719 40 **E-mail:** kontakt@ravenol.de **Website:** www.ravenol.de

E-mail (competent person): sdb@ravenol.de

#### \* 1.4. Emergency telephone number

24 hr. emergency phone number, 24h: +49 700 24 112 112 (Contract ID: RAV) / +1 872 5888271 (Contract ID: RAV)

# SECTION 2: Hazards identification

## **2.1.** Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008 [CLP]

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

#### \* 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

According to EC directives or the corresponding national regulations the product does not have to be labelled.

#### Hazard statements: none

Supplemental hazard information		
EUH208	Contains Molybdenum alkylthiocarbamide complex. May produce an allergic reaction.	
EUH210	Safety data sheet available on request.	

#### Precautionary statements: none

#### 2.3. Other hazards

#### Other adverse effects:

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.



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## **SECTION 3: Composition/information on ingredients**

#### \* 3.2. Mixtures

#### Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentratio
CAS No.: 68037-01-4 EC No.: 500-183-1	<b>1-decene, homopolymer, hydrogenated</b> Asp. Tox. 1 (H304)	40 - < 70 weight-%
REACH No.: 01-2119486452-34	🚯 Danger	
CAS No.: 36878-20-3 EC No.: 253-249-4 REACH No.: 01-2119488911-28	bis(nonylphenyl)amine Aquatic Chronic 4 (H413)	0 - < 1.5 weight-%
CAS No.: 1190625-94-5 EC No.: 931-468-2 REACH No.: 01-2119498288-19	C14-16-18 Alkyl phenol Aquatic Chronic 4 (H413), Skin Irrit. 2 (H315) Warning	0 - < 1.5 weight-%
CAS No.: 28629-66-5 EC No.: 249-109-7 REACH No.: 01-2119953278-28	zinc bis(O,O-diisooctyl) bis(dithiophosphate) Aquatic Chronic 2 (H411), Eye Dam. 1 (H318), Skin Irrit. 2 (H315)	0 - < 1.5 weight-%
EC No.: 457-320-2 REACH No.: 01-0000019337-66	Molybdenum alkylthiocarbamide complex Aquatic Chronic 3 (H412), Skin Irrit. 2 (H315), Skin Sens. 1B (H317) Warning	0 - < 0.15 weight-%

## **SECTION 4: First aid measures**

## 4.1. Description of first aid measures

#### General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious but breathing normally, place in recovery position and seek medical advice. Do not leave affected person unattended.

#### Following inhalation:

Provide fresh air. Consult a doctor immediately.

#### In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap. Consult a doctor immediately.

#### After eye contact:

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

#### Following ingestion:

Rinse mouth thoroughly with water. Do NOT induce vomiting. Consult a doctor immediately.

#### Self-protection of the first aider:

Use personal protection equipment. No direct artificial respiration to be given by first aider.

#### **4.2. Most important symptoms and effects, both acute and delayed** No known symptoms to date.

#### **4.3. Indication of any immediate medical attention and special treatment needed** Treat symptomatically. Observe risk of aspiration if vomiting occurs.

## **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

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#### Suitable extinguishing media:

Co-ordinate fire-fighting measures to the fire surroundings. Carbon dioxide (CO2) Extinguishing powder alcohol resistant foam Use water spray jet to protect personnel and to cool endangered containers.

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## Unsuitable extinguishing media:

Full water jet

5.2. Special hazards arising from the substance or mixture

During heating or in case of fire, toxic gases is possible.

The formation of combustible vapours is possible at temperatures above: Flash point

## Hazardous combustion products:

Carbon monoxide, Carbon dioxide (CO2), Nitrogen oxides (NOx), During heating or in case of fire, toxic gases is possible.

## 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Protective clothing.

## 5.4. Additional information

Do not inhale explosion and combustion gases. Move undamaged containers from immediate hazard area if it can be done safely. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

# SECTION 6: Accidental release measures

# $\ast \mid$ 6.1. Personal precautions, protective equipment and emergency procedures

# 6.1.1. For non-emergency personnel

## Personal precautions:

Use personal protection equipment. Special danger of slipping by leaking/spilling product.

## Protective equipment:

Personal protection equipment: see section 8

## **Emergency procedures:**

Eliminate all ignition sources if safe to do so. Remove persons to safety. Provide adequate ventilation.

## 6.1.2. For emergency responders

## Personal protection equipment:

Use personal protection equipment.

## 6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers). In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

# 6.3. Methods and material for containment and cleaning up

## For containment:

Suitable material for taking up: Sand, Kieselguhr, Universal binder, Chemical binding agents, containing acids

Prevent spread over a wide area (e.g. by containment or oil barriers).

## For cleaning up:

Remove from the water surface (e.g. skimming, sucking). Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

## Other information:

Treat the recovered material as prescribed in the section on waste disposal.

## 6.4. Reference to other sections

Safe handling: see section 7 Disposal: see section 13 Personal protection equipment: see section 8

# 6.5. Additional information

Clear spills immediately. Use appropriate container to avoid environmental contamination.

# **SECTION 7: Handling and storage**

# \* 7.1. Precautions for safe handling

## **Protective measures**

## Advices on safe handling:

Wear personal protection equipment (refer to section 8).

When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Do not put any product-impregnated cleaning rags into your trouser pockets. Clear spills immediately. Use appropriate container to avoid environmental contamination.



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#### Fire prevent measures:

No special fire protection measures are necessary.

#### **Environmental precautions:**

Shafts and sewers must be protected from entry of the product.

#### Advices on general occupational hygiene

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500.

#### 7.2. Conditions for safe storage, including any incompatibilities

#### Technical measures and storage conditions:

Keep container tightly closed in a cool, well-ventilated place.

#### Requirements for storage rooms and vessels:

Suitable container/equipment material: Floors should be impervious, resistant to liquids and easy to clean. Shafts and sewers must be protected from entry of the product. Keep/Store only in original container.

#### Hints on storage assembly:

not required

**Storage class (TRGS 510, Germany):** 10 – Combustible liquids that cannot be assigned to any of the above storage classes

#### Further information on storage conditions:

Store in a cool dry place. Keep away from heat.

#### 7.3. Specific end use(s)

#### **Recommendation:**

Observe technical data sheet.

#### **SECTION 8: Exposure controls/personal protection**

#### \* 8.1. Control parameters

8.1.1. Occupational exposure limit values No data available

#### 8.1.2. Biological limit values

No data available

#### 8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	<ol> <li>DNEL type</li> <li>Exposure route</li> </ol>
<b>bis(nonylphenyl)amine</b> CAS No.: 36878-20-3 EC No.: 253-249-4	5 mg/kg bw/ day	<ol> <li>DNEL worker</li> <li>Long-term - dermal, systemic effects</li> </ol>
<b>C14-16-18 Alkyl phenol</b> CAS No.: 1190625-94-5 EC No.: 931-468-2	1.17 mg/m <sup>3</sup>	<ol> <li>DNEL worker</li> <li>Long-term - inhalation, systemic effects</li> </ol>
zinc bis[O-(6-methylheptyl)] bis[O- (sec-butyl)] bis(dithiophosphate) CAS No.: 93819-94-4 EC No.: 298-577-9	8.31 mg/m³	<ol> <li>DNEL worker</li> <li>Long-term - inhalation, systemic effects</li> </ol>
zinc bis[O-(6-methylheptyl)] bis[O- (sec-butyl)] bis(dithiophosphate) CAS No.: 93819-94-4 EC No.: 298-577-9	2.11 mg/m³	<ol> <li>DNEL Consumer</li> <li>Long-term - inhalation, systemic effects</li> </ol>
zinc bis[O-(6-methylheptyl)] bis[O- (sec-butyl)] bis(dithiophosphate) CAS No.: 93819-94-4 EC No.: 298-577-9	0.58 mg/kg	<ol> <li>DNEL worker</li> <li>Long-term - dermal, systemic effects</li> </ol>
zinc bis[O-(6-methylheptyl)] bis[O- (sec-butyl)] bis(dithiophosphate) CAS No.: 93819-94-4 EC No.: 298-577-9	0.29 mg/kg	<ol> <li>DNEL Consumer</li> <li>Long-term - dermal, systemic effects</li> </ol>
zinc bis[O-(6-methylheptyl)] bis[O- (sec-butyl)] bis(dithiophosphate) CAS No.: 93819-94-4 EC No.: 298-577-9	0.24 mg/kg	<ol> <li>DNEL Consumer</li> <li>Long-term - oral, systemic effects</li> </ol>



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Substance name	DNEL value	① DNEL type
		<ul><li>② Exposure route</li></ul>
Molybdenum alkylthiocarbamide complex EC No.: 457-320-2	3.52 mg/m <sup>3</sup>	<ol> <li>DNEL worker</li> <li>Long-term - inhalation, systemic effects</li> </ol>
Molybdenum alkylthiocarbamide complex EC No.: 457-320-2	2.24 mg/kg	<ol> <li>DNEL worker</li> <li>Long-term - dermal, systemic effects</li> </ol>
Molybdenum alkylthiocarbamide complex EC No.: 457-320-2	0.112 mg/cm <sup>2</sup>	<ol> <li>DNEL worker</li> <li>Long-term - dermal, local effects</li> </ol>
Substance name	PNEC Value	PNEC type
<b>bis(nonylphenyl)amine</b> CAS No.: 36878-20-3 EC No.: 253-249-4	412 μg/L	<ol> <li>PNEC aquatic, freshwater</li> </ol>
<b>bis(nonylphenyl)amine</b> CAS No.: 36878-20-3 EC No.: 253-249-4	41.2 μg/L	① PNEC aquatic, marine water
<b>bis(nonylphenyl)amine</b> CAS No.: 36878-20-3 EC No.: 253-249-4	1 mg/L	<ol> <li>PNEC aquatic, intermittent release</li> </ol>
<b>C14-16-18 Alkyl phenol</b> CAS No.: 1190625-94-5 EC No.: 931-468-2	100 µg/L	① PNEC aquatic, freshwater
<b>C14-16-18 Alkyl phenol</b> CAS No.: 1190625-94-5 EC No.: 931-468-2	10 μg/L	<ol> <li>PNEC aquatic, marine water</li> </ol>
<b>C14-16-18 Alkyl phenol</b> CAS No.: 1190625-94-5 EC No.: 931-468-2	100 mg/L	① PNEC sewage treatment plant
<b>C14-16-18 Alkyl phenol</b> CAS No.: 1190625-94-5 EC No.: 931-468-2	4,266.16 mg/ kg bw/day	① PNEC sediment, freshwater
<b>C14-16-18 Alkyl phenol</b> CAS No.: 1190625-94-5 EC No.: 931-468-2	426.62 mg/kg bw/day	① PNEC sediment, marine water
<b>C14-16-18 Alkyl phenol</b> CAS No.: 1190625-94-5 EC No.: 931-468-2	852.58 mg/kg bw/day	① PNEC soil
<b>C14-16-18 Alkyl phenol</b> CAS No.: 1190625-94-5 EC No.: 931-468-2	3.3 mg/kg bw/ day	① PNEC secondary poisoning
<b>C14-16-18 Alkyl phenol</b> CAS No.: 1190625-94-5 EC No.: 931-468-2	1 mg/L	① PNEC aquatic, intermittent release
zinc bis[O-(6-methylheptyl)] bis[O- (sec-butyl)] bis(dithiophosphate) CAS No.: 93819-94-4 EC No.: 298-577-9	4 μg/L	① PNEC aquatic, freshwater
zinc bis[O-(6-methylheptyl)] bis[O- (sec-butyl)] bis(dithiophosphate) CAS No.: 93819-94-4 EC No.: 298-577-9	4.6 μg/L	① PNEC aquatic, marine water
zinc bis[O-(6-methylheptyl)] bis[O- (sec-butyl)] bis(dithiophosphate) CAS No.: 93819-94-4 EC No.: 298-577-9	100 mg/L	① PNEC sewage treatment plant
zinc bis[O-(6-methylheptyl)] bis[O- (sec-butyl)] bis(dithiophosphate) CAS No.: 93819-94-4 EC No.: 298-577-9	0.012 mg/kg	<ol> <li>PNEC sediment, freshwater</li> </ol>
zinc bis[O-(6-methylheptyl)] bis[O- (sec-butyl)] bis(dithiophosphate) CAS No.: 93819-94-4 EC No.: 298-577-9	0.001 mg/kg	① PNEC sediment, marine water
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Substance name	PNEC Value	① PNEC type
zinc bis[O-(6-methylheptyl)] bis[O- (sec-butyl)] bis(dithiophosphate) CAS No.: 93819-94-4 EC No.: 298-577-9	0.005 mg/kg	① PNEC soil
Molybdenum alkylthiocarbamide complex EC No.: 457-320-2	0.081 mg/L	① PNEC aquatic, freshwater
Molybdenum alkylthiocarbamide complex EC No.: 457-320-2	0.008 mg/L	① PNEC aquatic, marine water
Molybdenum alkylthiocarbamide complex EC No.: 457-320-2	10 mg/L	① PNEC sewage treatment plant
Molybdenum alkylthiocarbamide complex EC No.: 457-320-2	195 mg/kg	① PNEC sediment, freshwater
Molybdenum alkylthiocarbamide complex EC No.: 457-320-2	19.5 mg/kg	① PNEC sediment, marine water
Molybdenum alkylthiocarbamide complex EC No.: 457-320-2	0.872 mg/kg	① PNEC soil
Molybdenum alkylthiocarbamide complex EC No.: 457-320-2	20 mg/kg	① PNEC secondary poisoning

#### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

See section 7. No additional measures necessary.

## 8.2.2. Personal protection equipment



#### Eye/face protection:

During transfer: Eye glasses with side protection Wear eye/face protection. EN 166

### Skin protection:

Hand protection

Suitable material: NBR (Nitrile rubber), PVC (polyvinyl chloride), CR (polychloroprene, chloroprene rubber) Thickness of the glove material:  $\geq$  0,4 mm

Breakthrough time: 480 min

Breakthrough times and swelling properties of the material must be taken into consideration.

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Tested protective gloves must be worn: EN ISO 374

Suitable protective clothing: Protective clothing

#### **Respiratory protection:**

Usually no personal respirative protection necessary.

#### 8.2.3. Environmental exposure controls

See section 7. No additional measures necessary.

## **SECTION 9: Physical and chemical properties**

#### \* 9.1. Information on basic physical and chemical properties

#### Appearance

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**Physical state:** Liquid **Odour:** characteristic

Colour: tawny



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#### Safety relevant basis data

Parameter	Value	at °C	1 Method
			② Remark
рН	not applicable		
Melting point	No data available		
Freezing point	No data available		
Initial boiling point and boiling range	No data available		
Flash point	246 °C		
Evaporation rate	No data available		
Auto-ignition temperature	No data available		
Upper/lower flammability or explosive limits	No data available		
Vapour pressure	No data available		
Vapour density	No data available		
Density	850 kg/m³	15 °C	
Relative density	not applicable		
Bulk density	not applicable		
Water solubility	practically insoluble		
Partition coefficient: n-octanol/water	not applicable		
Dynamic viscosity	No data available		
Kinematic viscosity	94 mm²/s	40 °C	

#### 9.2. Other information

Not applicable

## **SECTION 10: Stability and reactivity**

#### \* 10.1. Reactivity

No known hazardous reactions.

#### **10.2.** Chemical stability

The mixture is chemically stable under recommended conditions of storage, use and temperature.

#### 10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

#### 10.4. Conditions to avoid

To avoid thermal decomposition do not overheat.

#### 10.5. Incompatible materials

Materials to avoid: Acid, Oxidising agent, Reducing agent

#### \* 10.6. Hazardous decomposition products

Hazardous combustion products: Carbon monoxide, Carbon dioxide (CO2), Nitrogen oxides (NOx), During heating or in case of fire, toxic gases is possible.

#### Further information

No information available.

## **SECTION 11: Toxicological information**

#### \* 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

**1-decene, homopolymer, hydrogenated** CAS No.: 68037-01-4 EC No.: 500-183-1

#### **LD<sub>50</sub> oral:** >5,000 mg/kg (Rat)

LD<sub>50</sub> dermal: >2,000 mg/kg (Rabbit)

LC<sub>50</sub> Acute inhalation toxicity (dust/mist): >5 mg/L 4 h (Rat)

bis(nonylphenyl)amine CAS No.: 36878-20-3 EC No.: 253-249-4

**LD<sub>50</sub> oral:** >5,000 mg/kg (Rat)

LD<sub>50</sub> dermal: >2,000 mg/kg (Rabbit)

LC<sub>50</sub> Acute inhalation toxicity (dust/mist): >5 mg/L



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C14-16-18 Alkyl phenol CAS No.: 1190625-94-5 EC No.: 931-468-2
LD <sub>50</sub> oral: 2,000 mg/kg
LD <sub>50</sub> dermal: 2,000 mg/kg
Molybdenum alkylthiocarbamide complex EC No.: 457-320-2
LD <sub>50</sub> oral: >2,000 mg/kg (Rat) OECD Guideline 425
LD <sub>50</sub> dermal: >2,000 mg/kg (Rat) OECD Guideline 402
Acute oral toxicity:
Based on available data, the classification criteria are not met.
Acute dermal toxicity:
Based on available data, the classification criteria are not met.
Acute inhalation toxicity:
Based on available data, the classification criteria are not met.
Skin corrosion/irritation:
Based on available data, the classification criteria are not met.
Serious eye damage/irritation: Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation:
Contains Molybdenum alkylthiocarbamide complex. May produce an allergic reaction.
Germ cell mutagenicity:
Based on available data, the classification criteria are not met.
Carcinogenicity:
Based on available data, the classification criteria are not met.
Reproductive toxicity:
Based on available data, the classification criteria are not met.
<b>STOT-single exposure:</b> Based on available data, the classification criteria are not met.
STOT-repeated exposure:
Based on available data, the classification criteria are not met.
Aspiration hazard:
Observe risk of aspiration if vomiting occurs.
For viscosity data, see section 9.
Additional information:
Frequently or prolonged contact with skin may cause dermal irritation.
11.2. Information on other hazards
Endocrine disrupting properties:
This product does not contain a substance that has endocrine disrupting properties with respect to
humans as no components meets the criteria. <b>Other information:</b>
No data available.
SECTION 12: Ecological information
12.1. Toxicity
1-decene, homopolymer, hydrogenated CAS No.: 68037-01-4 EC No.: 500-183-1
LC <sub>50</sub> : >750 mg/L 4 d (fish)
EC <sub>50</sub> : 190 mg/L 2 d (crustaceans, Daphnia pulex (water flea))
EC <sub>50</sub> : >1,000 mg/L 3 d (Algae/water plant)

bis(nonylphenyl)amine CAS No.: 36878-20-3 EC No.: 253-249-4

**LC<sub>50</sub>:** >100 mg/L 4 d (fish)

EC<sub>50</sub>: >100 mg/L 2 d (crustaceans)

EC<sub>50</sub>: 600 mg/L 3 d (Algae/water plant)

C14-16-18 Alkyl phenol CAS No.: 1190625-94-5 EC No.: 931-468-2

EC<sub>50</sub>: 100 mg/L 2 d (crustaceans)

EC<sub>50</sub>: 100 mg/L 2 d (Algae/water plant)

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Molybdenum alkylthiocarbamide complex EC No.: 457-320-2

#### **LC<sub>50</sub>:** 670 mg/L 4 d (fish)

EC<sub>50</sub>: 50 mg/L 2 d (crustaceans)

NOEC: 100 mg/L 21 d (crustaceans)

EC50: 9.62 mg/L 3 d (Algae/water plant)

NOEC: 4.05 mg/L 3 d (Algae/water plant)

#### Assessment/classification:

Based on available data, the classification criteria are not met.

#### Additional ecotoxicological information:

Do not allow uncontrolled discharge of product into the environment.

#### \* 12.2. Persistence and degradability

bis(nonylphenyl)amine CAS No.: 36878-20-3 EC No.: 253-249-4

Biodegradation: -

#### **Biodegradation:**

Not readily biodegradable (according to OECD criteria)

#### \* 12.3. Bioaccumulative potential

bis(nonylphenyl)amine CAS No.: 36878-20-3 EC No.: 253-249-4

Log K<sub>OW</sub>: 7.6

**Bioconcentration factor (BCF):** 1,584.89

#### Partition coefficient: n-octanol/water:

not applicable

\*

Accumulation / Evaluation:

The product has not been tested.

#### 12.4. Mobility in soil

The product has not been tested.

#### 12.5. Results of PBT and vPvB assessment

**1-decene, homopolymer, hydrogenated** CAS No.: 68037-01-4 EC No.: 500-183-1

Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII. bis(nonylphenyl)amine CAS No.: 36878-20-3 EC No.: 253-249-4

Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII. C14-16-18 Alkyl phenol CAS No.: 1190625-94-5 EC No.: 931-468-2

Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII. zinc bis(O,O-diisooctyl) bis(dithiophosphate) CAS No.: 28629-66-5 EC No.: 249-109-7

Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.Molybdenum alkylthiocarbamide complexEC No.: 457-320-2

Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

#### 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to nontarget organisms as no components meets the criteria.

#### 12.7. Other adverse effects

No data available.

#### **SECTION 13: Disposal considerations**

#### **13.1.** Waste treatment methods

Dispose of waste according to applicable legislation.

#### Waste treatment options

#### Appropriate disposal / Product:

Dispose of waste according to applicable legislation.

#### Appropriate disposal / Package:

Non-contaminated packages may be recycled.



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#### Other disposal recommendations:

Consult the appropriate local waste disposal expert about waste disposal.

#### 13.2. Additional information

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

## **SECTION 14: Transport information**

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN number or	ID number		
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.2. UN proper ship	ping name		
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.3. Transport haza	rd class(es)		,
not relevant 14.4. Packing group	not relevant	not relevant	not relevant
not relevant	not relevant	not relevant	not relevant
14.5. Environmental	hazards	•	
not relevant	not relevant	not relevant	not relevant
14.6. Special precau	tions for user		
not relevant	not relevant	not relevant	not relevant

#### **14.7. Maritime transport in bulk according to IMO instruments** Not applicable

## SECTION 15: Regulatory information

# \* 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU legislation

#### Other regulations (EU):

This product is not assigned to a hazard category. Safety data sheet available on request.

#### 15.1.2. National regulations

#### [DE] National regulations

Störfallverordnung (12. BlmschV)

### for substances contained in the product:

This product is not assigned to a hazard category.

Technische Anleitung zur Reinhaltung der Luft (TA-Luft)

#### **Remark:**

To follow: 5.2.5

# Water hazard class

WGK:

1 - slightly hazardous to water

#### Source:

Self-classification (mixture; calculation rule).

# Identification number 436

# Technische Regeln für Gefahrstoffe

TRGS 510 TRGS 500

#### Berufsgenossenschaftliche Vorschriften (DGUV-Vorschriften)

Berufsgenossenschaftliche Informationen (DGUV-Informationen) 868 Berufsgenossenschaftliche Regeln (DGUV-Regeln) 189, 190, 192, 195 **Other regulations, restrictions and prohibition regulations** 

Altöl-Verordnung (AltölV)



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Revision date: 10 Apr 2024 Version: 10 Print date: 10 Apr 2024

#### [DK] National regulations Other regulations, restrictions and prohibition regulations Dänemark: Bekendtgørelse af lov om arbejdsmiljø: Beskæftigelsesministeriets lovbekendtgørelse nr. 1072 af 7. september 2010 Lister over stoffer og processer, der anses for at væere kraeftfremkaldende [FR] National regulations Other regulations, restrictions and prohibition regulations Frankreich: Tableaux de maladies professionelles Nomenclature des installations classées pour la protection de l'environnement Articles L. 4523-1 à L. 4523-17. L. 4611-1 à L. 4614-16. R. 4523-1 à R. 4523-17 et R. 4612-1 à R. 4615-21 du Code du travail [NL] National regulations Other regulations, restrictions and prohibition regulations Niederlande: Lijst vank kankerverwekkende, mutagene en voor de voortplanting giftige stoffen (SZW) Algemeene beoordelingsmethodiek Water (ABM) Nederlandse emissierichtlijn (NeR) NIET-Limitatieve lijst an voor de voortplanting giftige stoffen - Borstvoeding NIET-Limitatieve lijst an voor de voortplanting giftige stoffen - Vruchtbaarheid NIET-Limitatieve lijst an voor de voortplanting giftige stoffen - Ontwikkeling SZW-lijst van kankerverwekkende stoffen SZW-lijst van mutagene stoffen Wet van 18 maart 1999, houdende begalingen ter verbetering van de arbeidsomstandigheden (Arbeidsomstandighedenwet) Wet op de ondernemingsraden 1971 [CH] National regulations Other regulations, restrictions and prohibition regulations Mengenschwelle (Schweiz - StFV) Gefahrencode Brandverhütung, BVD (Schweiz) [SK] National regulations Other regulations, restrictions and prohibition regulations Zákon č. 67/2010 Z.z., o podmienkach uvedenia chemických látok a chemických zmesí na trh a o zmene a doplnení niektorých zákonov (chemický zákon). Zákon č. 124/2006 Z. z. o bezpečnosti a ochrane zdravia pri práci a o zmene a doplnení niektorých zákonov. Zákon NR SR č. 355/2007 Z.z., o ochrane, podpore a rozvoji verejného zdravia a o zmene a doplnení niektorých zákonov, v znení neskorších predpisov. Nariadenie vlády SR 471/2011 Z.z., ktorým sa mení nariadenie vlády Slovenskej republiky č. 355/2006 Z. z. o ochrane zamestnancov pred rizikami súvisiacimi s expozíciou chemickým faktorom pri práci, Príloha č.1. Zákon č. 79/2015 Z.z. o odpadoch v znení neskorších predpisov. Vyhláška MV SR č. 96/2004 Z.z., ktorou sa ustanovujú zásady protipožiarnej bezpečnosti pri manipulácii a skladovaní horľavých kvapalín, ťažkých vykurovacích olejov a rastlinných a živočíšnych tukov a olejov. Zákon NR SR č. 137/2010 Z.z. o ovzduší v znení neskorších predpisov. Zákon č. 319/2013 Z.z. o pôsobnosti orgánov štátnej správy pre sprístupňovanie biocídnych výrobkov na trh a ich používanie a o zmene a doplnení niektorých zákonov (biocídny zákon). 15.2. Chemical Safety Assessment Chemical safety assessments for substances in this mixture were not carried out. 15.3. Additional information No data available. SECTION 16: Other information 16.1. Indication of changes 1.3. Details of the supplier of the safety data sheet 1.4. Emergency telephone number 2.2. Label elements

Personal precautions, protective equipment and emergency procedures

pa

Mixtures

Precautions for safe handling

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en / AL / AD / BY / BE / BA / BG / CN / DK / DE / EE / ...



RAVENOĽ

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8.1.       Control parameters         8.2.       Exposure controls         9.1.       Information on basic physical and chemical properties         10.1.       Reactivity         10.6.       Hazardous decomposition products         11.1.       Information on the mazerd         12.2.       Prevations on on the mazerds         12.3.       Toxicity         12.4.       Toxicity         12.2.       Bloaccumulative potential         12.3.       Bloaccumulative potential         12.4.       Information on other univonmental regulations/legislation specific for the substance or mixture         16.1.       Information and acronyms         16.2.       Abbreviations and acronyms         16.3.       List of relevant hazard statements and/or precautionary statements from sections 2 to 15         17.4.       Dragmeement concerning the International Carriage of Dangerous Goods by Inland Waterways         ADN       European Agreement concerning the International Carriage of Dangerous Goods by Road         BCF       Bloconcentration Factor         CAS       Chemical Abstracts Service         CAP       Classification, Labelling and Packaging         DNEL       derived no-effect level         EC_0       Effective Concentration 50%         LCS </th <th></th> <th>·</th>		·
8.2.         Exposure controls           9.1.         Information on basic physical and chemical properties           10.1.         Reactivity           10.1.         Reactivity           10.1.         Reactivity           10.1.         Information on basic disess as defined in Regulation (EC) No 1272/2008           11.1.         Information on other hazard           12.1.         Toxicity           12.2.         Persistence and degradability           12.3.         Bioaccumulative potential           12.4.         Toxicity           12.5.         Results of PBT and vPvB assessment           15.6.         List of relevant hazard statements and/or precautionary statements from sections 2 to 15           16.2.         Abbreviations and acronyms           16.3.         List of relevant hazard statements and/or precautionary statements from sections 2 to 15           16.4.         List of relevant hazard statements and/or precautional Carriage of Dangerous Goods by Road           8.0.         Chemistical Advecament concerning the International Carriage of Dangerous Goods by Road           8.0.         Chemistical Advecament concerning the International Advecament concernitation Street (Carcentration Stre	8.1.	Control parameters
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10.6.       Hazardous decomposition products         11.1.       Information on hazard classes as defined in Regulation (EC) No 1272/2008         11.2.       Information on oher hazards         12.1.       Texicity         12.2.       Presistence and degradability         12.3.       Bioaccumulative potential         12.5.       Results of PET and vPk assessment         15.1.       Safety, health and environmental regulations/legislation specific for the substance or mixture         16.1.       Indication of changes         16.2.       Abbreviations and acronyms         16.5.       List of relevant hazard statements and/or precautionary statements from sections 2 to 15         16.2.       Abbreviations and acronyms         16.2.       Abbreviations and acronyms         16.2.       Abbreviations and acronyms         16.2.       Abbreviation and acronyms         16.2.       Abbreviations and acronyms         16.2.       Abbreviation and acronyms         16.2.       Abbreviation and acronyms         16.2.       Abbreviation and acronyms         17.2.       Preside and acronyms         16.2.       Abbreviation and acronyms         16.2.       Abbreviation and acronyms         16.2.       Abbreviation and acronyms	9.1.	Information on basic physical and chemical properties
111.       Information on hazard classes as defined in Regulation (EC) No 1272/2008         112.       Information on other hazards         121.       Toxicity         122.       Persistence and degradability         123.       Bioaccumulative potential         124.       Toxicity         125.       Results of PBT and vPVB assessment         151.       Safety, health and environmental regulations/legislation specific for the substance or mixture         152.       Inforce and accommons         163.       Listy of relevant hazard statements and/or precautionary statements from sections 2 to 15         164.       Abbreviations and accomyms         165.       Listy of relevant hazard statements and/or precautionary statements from sections 2 to 15         165.       Disconcentration Factor         CAP       Chemical Abstracts Service         CLP       Classification. Labelling and Packaging         DNEL       derived no-effect level         EC50       Effective Concentration 50%         ICAO       International Maritime Dangerous Goods         IMDG       International Maritime Organization         NOEC       No Observed Effect Concentration 50%         IC50       Effective Concentration 50%         IC50       Lethal (fata) Concentration 60% <th>10.1.</th> <th>Reactivity</th>	10.1.	Reactivity
112.1.       Information on other hazards         12.1.       Toxicity         12.2.       Persistence and degradability         12.3.       Bioaccumulative potential         12.5.       Results of PBT and wVB assessment         13.5.       Safety, health and environmental regulations/legislation specific for the substance or mixture         16.1.       Indication of changes         16.2.       Abbreviations and acronyms         16.3.       List of relevant hazard statements and/or precautionary statements from sections 2 to 15         16.4.       Abbreviations and acronyms         16.5.       List of relevant hazard statements and/or precautionary statements from sections 2 to 15         16.2.       Abbreviations and acronyms         16.3.       Development and acronyms         16.4.       Abbreviations and acronyms         16.5.       List of relevant hazard statements and/or precautionary statements from sections 2 to 15         16.4.       Abbreviation and acronyms         16.5.       List of relevant hazard statements and/or precautionary statements from sections 2 to 15         16.2.       Abbreviations and acronyms         16.2.       Abbreviation and acronyms         16.2.       International Maritime Dangerous Goods         110.       International Maritime Dangerous Goods <th>10.6.</th> <th>Hazardous decomposition products</th>	10.6.	Hazardous decomposition products
12.1.       Toxicity         12.2.       Persistence and degradability         12.3.       Bioaccumulative potential         12.3.       Results of PBT and vPVB assessment         15.1.       Safety, health and environmental regulations/legislation specific for the substance or mixture         16.1.       Indication of changes         16.2.       Listy health and environmental regulations/legislation specific for the substance or mixture         16.3.       List of relevant hazard statements and/or precautionary statements from sections 2 to 15         16.4.       Abbreviations and acronyms         ADR       European Agreement concerning the International Carriage of Dangerous Goods by Road         BCF       Bioconcentration Factor         CAS       Chemical Abstracts Service         CLP       Classification, Labelling and Packaging         DNEL       derived on-effect level         EC5_0       Effective Concentration 50%         ICAO       International Maritime Organization         IMO       International Maritime Organization         NGE       bioaccumulative and toxic         PT       persistent and bioaccumulative and toxic         PRA       National Fire Protection Association         NOEC       No Deserved Effect Concentration         REACH       <	11.1.	Information on hazard classes as defined in Regulation (EC) No 1272/2008
12.2.       Persistence and degradability         12.3.       Bioaccumulative potential         12.5.       Results of PBT and vPVB assessment         13.5.       Safety. health and environmental regulations/legislation specific for the substance or mixture         16.1.       Indication of changes         16.2.       Abbreviations and acronyms         16.5.       List of relevant hazard statements and/or precautionary statements from sections 2 to 15         16.2.       Abbreviations and acronyms         ADN       European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways         ADR       European Agreement concerning the International Carriage of Dangerous Goods by Road         BCF       Bioconcentration Factor         CAS       Chemical Abstracts Service         CAS       Chemical Abstracts Service         CAS       International Civil Aviation Organization         IMO       International Maritime Dangerous Goods         IMO       International Maritime Organization         KG       body weight         LC <sub>50</sub> Lethal (fatal) Concentration 50%         LD <sub>50</sub> Lethal (fatal) Dose 50%         NPEA       National Fire Protection Association         NOE       No Observed Effect Concentration         REACH	11.2.	Information on other hazards
12.3.       Bioacumulative potential         12.5.       Results of PBT and vPvB assessment         15.1.       Safety, health and environmental regulations/legislation specific for the substance or mixture         16.1.       Indication of changes         16.2.       Abbreviations and acronyms         16.5.       List of relevant hazard statements and/or precautionary statements from sections 2 to 15         ISA Deviations and acronyms         ADN       European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways         ADR       European Agreement concerning the International Carriage of Dangerous Goods by Road Bioconcentration Factor         CAS       Chemical Abstracts Service         CJP       Classification, Labelling and Packaging         DINE       derived no-effect level         ESo       Effective Concentration 50%         ICAO       International Maritime Dagerous Goods         IMDG       International Maritime Organization         KG       body weight         LC <sub>50</sub> Lethal (fatal) Concentration 50%         LC <sub>50</sub> Lethal (fatal) Concentration 50%         DCC       Organisation for Economic Cooperation and Development         PBT       persistent and bioaccumulative and toxic         PNEC       Predistration, Evaluation and A	12.1.	Toxicity
12.5.       Results of PBT and vPvB assessment         15.1.       Safety, health and environmental regulations/legislation specific for the substance or mixture         16.1.       Indication of changes         16.2.       Abbreviations and acronyms         16.5.       List of relevant hazard statements and/or precautionary statements from sections 2 to 15         16.2.       Abbreviations and acronyms         ADN       European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways         ADR       European Agreement concerning the International Carriage of Dangerous Goods by Road         BCF       Bioconcentration Factor         CAS       Chemical Abstracts Service         CIP       Classification, Labelling and Packaging         DNEL       derived no-effect level         ECs_0       Effective Concentration 50%         ICAO       International Maritime Organization         IMDG       International Maritime Organization         NG       body weight         LCs_0       Lethal (fatal) Dose 50%         NFPA       National Fire Protection Association         NOEC       No Observed Effect Concentration         DR       Dargerous goods regulations for transport by rail         SC       Specific concentration imint         TRGS	12.2.	Persistence and degradability
15.1.       Safety, health and environmental regulations/legislation specific for the substance or mixture         16.1.       Indication of changes         16.2.       Abbreviations and acronyms         16.5.       List of relevant hazard statements and/or precautionary statements from sections 2 to 15         16.2.       Abbreviations and acronyms         ADM       European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways         ADR       European Agreement concerning the International Carriage of Dangerous Goods by Road BCF         Bioconcentration Factor       Econcentration Factor         CAS       Chemical Abstracts Service         CLP       Classification, Labelling and Packaging         DIMEL       derived no-effect level         ECos       Effective Concentration 50%         ICCo       International Maritime Organization         IMDG       International Maritime Organization         NDCE       No Observed Effect Concentration 50%         LD <sub>50</sub> Lethal (fatal) Dose 50%         NPPA       National Fire Protection Association         NOEC       No Observed Effect Concentration         REACH       Registration, Evaluation and Authorization of Chemicals         RID       Dangerous goods regulations for transport by rail         Sce serview table	12.3.	Bioaccumulative potential
16.1.       Indication of changes         16.2.       Abbreviations and acronyms         16.5.       List of relevant hazard statements and/or precautionary statements from sections 2 to 15         16.2.       Abbreviations and acronyms         ADN       European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways         ADR       European Agreement concerning the International Carriage of Dangerous Goods by Road Biconcentration Factor         CAS       Chemical Abstracts Service         CLP       Classification. Labelling and Packaging         DNEL       derived no-effect level         EC <sub>50</sub> Effective Concentration 50%         ICAO       International Maritime Organization         IMO       International Maritime Organization         KG       body weight         LC <sub>50</sub> Lethal (fatal) Dose 50%         ICAO       International Maritime Organization         NDEC       No Observed Effect Concentration         OECD       Organisation for Economic Cooperation and Development         PBT       persistent and bioaccumulative and toxic         PNEC       Predicted No Effect Concentration         REACH       Registration, Evaluation and Authorization of Chemicals         RID       Dangerous goods regulations for transport by rail		
16.2.       Abbreviations and acronyms         16.5.       List of relevant hazard statements and/or precautionary statements from sections 2 to 15         16.2.       Abbreviations and acronyms         ADN       European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways         ADN       European Agreement concerning the International Carriage of Dangerous Goods by Road         BCF       Bioconcentration Factor         CAS       Chemical Abstracts Service         CLP       Classification, Labelling and Packaging         DNEL       derived no-effect level         E5_50       Effective Concentration 50%         ICAO       International Maritime Dagerous Goods         IMO       International Maritime Organization         KG       body weight         L5_50       Lethal (fatal) Concentration 50%         L5_50       Lethal (fatal) Dose 50%         NFPA       National Fire Protection Association         NOEC       No Observed Effect Concentration         OCD       Organisation for Economic Cooperation and Development         PBT       persistent and bioaccumulative and toxic         PNEC       Predicted No Effect Concentration         RD       Dangerous goods regulations for transport by rail         SCL       Specific c	-	
16.5.       List of relevant hazard statements and/or precautionary statements from sections 2 to 15         16.2.       Abbreviations and acronyms         ADN       European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways         ADR       European Agreement concerning the International Carriage of Dangerous Goods by Road BGC         BCR       Bioconcentration Factor         CAS       Chemical Abstracts Service         CLP       Classification, Labelling and Packaging         DNME       derived no-effect level         BC50       Effective Concentration 50%         ICAO       International Maritime Organization         IMDG       International Maritime Organization         IMO       International Maritime Organization         KG       body weight         LC <sub>50</sub> Lethal (fatal) Concentration 50%         LD <sub>90</sub> Lethal (fatal) Dose 50%         NPEA       National Fire Protection Association         NOEC       No Observed Effect Concentration         OCD       Organisation for Economic Cooperation and Development         PBT       persistent and bioaccumulative and toxic         PNEC       Predicted No Effect Concentration         OEC Sogods regulations for transport by rail       Scl         Scl       Spe		
<ul> <li>If-22. Abbreviations and acronyms</li> <li>ADN European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways</li> <li>ADR European Agreement concerning the International Carriage of Dangerous Goods by Road BCF Bioconcentration Factor</li> <li>CAS Chemical Abstracts Service</li> <li>CLP Classification, Labelling and Packaging</li> <li>DNEL derived no-effect level</li> <li>EC<sub>50</sub> Effective Concentration 50%</li> <li>ICAO International Maritime Dangerous Goods</li> <li>INDO International Maritime Dragnization</li> <li>INDG International Maritime Organization</li> <li>INDG International Maritime Organization</li> <li>INDG Unternational Maritime Organization</li> <li>NG body weight</li> <li>LC<sub>50</sub> Lethal (fatal) Concentration 50%</li> <li>LD<sub>50</sub> Lethal (fatal) Concentration 50%</li> <li>IDS<sub>50</sub> Lethal (fatal) Concentration 100</li> <li>Organisation for Economic Cooperation and Development</li> <li>PBT persistent and bioaccumulative and toxic</li> <li>PNEC Predicted No Effect Concentration 11mit</li> <li>TRGS Technische Regeln für Gefahrstoffe</li> <li>UN United Nations</li> <li>See overview table at www.euphrac.eu</li> <li>For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter Replation on classification, labeling and packaging of substances and mixtures, and amending Directives 67/548/EEC and 1999/45/EC and Regulation (EC) No 1907/2006</li> <li>REACH Regulation 1272/2008 EC - Regulation</li> <li>IEuropean Chemicals Agency (ECHA), C &amp; L classification and labeling inventory</li> <li>European Chemicals Agency (ECHA), C &amp; L classification and labeling inventory</li> <li>European Chemicals Agency</li></ul>		-
<ul> <li>ADN European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways</li> <li>ADR European Agreement concerning the International Carriage of Dangerous Goods by Road</li> <li>BCF Bioconcentration Factor</li> <li>CAS Chemical Abstracts Service</li> <li>CLP Classification, Labelling and Packaging</li> <li>DNEL derived no-effect level</li> <li>EC<sub>30</sub> Effective Concentration 50%</li> <li>ICAO International Civil Aviation Organization</li> <li>IMDG International Maritime Organization</li> <li>IMDG International Maritime Organization</li> <li>KG body weight</li> <li>Lethal (fatal) Concentration 50%</li> <li>LC<sub>30</sub> Lethal (fatal) Concentration 50%</li> <li>LC<sub>30</sub> Lethal (fatal) Concentration 50%</li> <li>LD<sub>30</sub> Lethal (fatal) Dose 50%</li> <li>NPA National Fire Protection Association</li> <li>NOEC No Observed Effect Concentration</li> <li>OECD Organisation for Economic Cooperation and Development</li> <li>PBT persistent and bioaccumulative and toxic</li> <li>PHEC Predicted No Effect Concentration</li> <li>REACH Registration, Evaluation and Authorization of Chemicals</li> <li>RID Dangerous goods regulations for transport by rail</li> <li>SCL Specific concentration limit</li> <li>TRGS Technische Regeln für Gefahrstoffe</li> <li>UN United Nations</li> <li>See overview table at www.euphrac.eu</li> <li>For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).</li> <li>1272/2008 EC - Regulation on classification, labeling and packaging of substances and mixtures, and amending Directives 67/548/EEC and 1999/45/EC and Regulation (EC) No 1907/2006</li> <li>REACH Registration on Chemical Substances (ChemPortal)</li> <li>Institute for Occupational Safety and Health of the German Social Accident Insurance (IFA): GESTIS substance database and International on Chemical Subst</li></ul>	16.5.	List of relevant hazard statements and/or precautionary statements from sections 2 to 15
CLP       Classification, Labelling and Packaging         DNEL       derived no-effect level         EC <sub>50</sub> Effective Concentration 50%         ICAO       International Maritime Dangerous Goods         IMDG       International Maritime Organization         IMO       International Maritime Organization         KG       body weight         LC <sub>50</sub> Lethal (fatal) Concentration 50%         LD <sub>50</sub> Lethal (fatal) Dose 50%         NFPA       National Fire Protection Association         NOEC       No Observed Effect Concentration         OECD       Organisation for Economic Cooperation and Development         PBT       persistent and bioaccumulative and toxic         PNEC       Predicted No Effect Concentration         REACH       Registration, Evaluation and Authorization of Chemicals         RID       Dangerous goods regulations for transport by rail         SCL       Specific concentration limit         TRGS       Technische Regeln für Gefahrstoffe         UN       United Nations         See overview table at www.euphrac.eu         For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations). <b>16.3. Key literature references and sources for data</b>	ADN ADR BCF	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways European Agreement concerning the International Carriage of Dangerous Goods by Road Bioconcentration Factor
<ul> <li>IMO International Maritime Organization</li> <li>KG body weight</li> <li>LC<sub>50</sub> Lethal (fatal) Concentration 50%</li> <li>LD<sub>50</sub> Lethal (fatal) Concentration 50%</li> <li>NPA National Fire Protection Association</li> <li>NOEC No Observed Effect Concentration</li> <li>OECD Organisation for Economic Cooperation and Development</li> <li>PBT persistent and bioaccumulative and toxic</li> <li>PNEC Predicted No Effect Concentration</li> <li>REACH Registration, Evaluation and Authorization of Chemicals</li> <li>RID Dangerous goods regulations for transport by rail</li> <li>SCL Specific concentration limit</li> <li>TRGS Technische Regeln für Gefahrstoffe</li> <li>UN United Nations</li> <li>See overview table at www.euphrac.eu</li> <li>For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).</li> <li><b>16.3. Key literature references and sources for data</b></li> <li>EC 1907/2006 - REACH Regulation</li> <li>1272/2008 EC - Regulation on classification, labeling and packaging of substances and mixtures, and amending Directives 67/548/EEC and 1999/45/EC and Regulation (EC) No 1907/2006</li> <li>Regulation (EC) No 1907/2006 (ECHA), C &amp; L classification and labeling inventory</li> <li>European Chemicals Agency (ECHA), C &amp; L classification and labeling inventory</li> <li>European Chemicals Agency (ECHA), ECHA CHEM Registered substances</li> <li>OECD The Global Portal to Information on Chemical Substances (ChemPortal)</li> <li>Institute for Occupational Safety and Health of the German Social Accident Insurance (IFA): GESTIS substance database and International limit values for chemical substances</li> <li>Federal Environment Agency, Section IV 2.4: Documentation and Information Centre substances hazardous to water (igoletto (catalog substances hazardous to water)</li> <li><b>16.4. Classification for mixtures and used eval</b></li></ul>	CLP DNEL EC <sub>50</sub>	Classification, Labelling and Packaging derived no-effect level Effective Concentration 50%
<ul> <li>NFPA National Fire Protection Association</li> <li>NOEC No Observed Effect Concentration</li> <li>OECD Organisation for Economic Cooperation and Development</li> <li>PBT persistent and bioaccumulative and toxic</li> <li>PNEC Predicted No Effect Concentration</li> <li>REACH Registration, Evaluation and Authorization of Chemicals</li> <li>RID Dangerous goods regulations for transport by rail</li> <li>SCL Specific concentration limit</li> <li>TRGS Technische Regeln für Gefahrstoffe</li> <li>UN United Nations</li> <li>See overview table at www.euphrac.eu</li> <li>For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).</li> <li><b>16.3. Key literature references and sources for data</b></li> <li>EC 1907/2006 - REACH Regulation</li> <li>1272/2008 EC - Regulation on classification, labeling and packaging of substances and mixtures, and amending Directives 67/548/EEC and 1999/45/EC and Regulation (EC) No 1907/2006</li> <li>Regulation (EC) No 1907/2006 (REACH), Annex II</li> <li>European Chemicals Agency (ECHA), C &amp; L classification and labeling inventory</li> <li>European Chemicals Agency (ECHA), C + L classification and labeling inventory</li> <li>European Chemicals Agency (ECHA), ECHA CHEM Registered substances</li> <li>OECD The Global Portal to Information on Chemical Substances</li> <li>OECD The Global Portal to Information and Haelth of the German Social Accident Insurance (IFA): GESTIS substance database and International limit values for chemical substances</li> <li>Federal Environment Agency, Section IV 2.4: Documentation and Information Centre substances hazardous to water Rigoletto (catalog substances hazardous to water)</li> <li><b>16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]</b></li> </ul>	IMO KG LC <sub>50</sub>	International Maritime Organization body weight Lethal (fatal) Concentration 50%
EC 1907/2006 - REACH Regulation 1272/2008 EC - Regulation on classification, labeling and packaging of substances and mixtures, and amending Directives 67/548/EEC and 1999/45/EC and Regulation (EC) No 1907/2006 Regulation (EC) No 1907/2006 (REACH), Annex II European Chemicals Agency (ECHA), C & L classification and labeling inventory European Chemicals Agency (ECHA), ECHA CHEM Registered substances OECD The Global Portal to Information on Chemical Substances (ChemPortal) Institute for Occupational Safety and Health of the German Social Accident Insurance (IFA): GESTIS substance database and International limit values for chemical substances Federal Environment Agency, Section IV 2.4: Documentation and Information Centre substances hazardous to water Rigoletto (catalog substances hazardous to water) <b>16.4. Classification for mixtures and used evaluation method according to</b> <b>regulation (EC) No 1272/2008 [CLP]</b>	NFPA NOEC OECD PBT PNEC REACH RID SCL TRGS UN See ov For abl assess	National Fire Protection Association No Observed Effect Concentration Organisation for Economic Cooperation and Development persistent and bioaccumulative and toxic Predicted No Effect Concentration Registration, Evaluation and Authorization of Chemicals Dangerous goods regulations for transport by rail Specific concentration limit Technische Regeln für Gefahrstoffe United Nations erview table at www.euphrac.eu previations and acronyms, see: ECHA Guidance on information requirements and chemical safety ment, chapter R.20 (Table of terms and abbreviations).
	EC 190 1272/2 amend Regula Europe OECD Institut substa Federa hazard <b>16.4. (</b>	07/2006 - REACH Regulation 1008 EC - Regulation on classification, labeling and packaging of substances and mixtures, and 1019 Directives 67/548/EEC and 1999/45/EC and Regulation (EC) No 1907/2006 1010 (EC) No 1907/2006 (REACH), Annex II 1020 ean Chemicals Agency (ECHA), C & L classification and labeling inventory 1021 ean Chemicals Agency (ECHA), ECHA CHEM Registered substances 1021 The Global Portal to Information on Chemical Substances (ChemPortal) 1022 ean Cocupational Safety and Health of the German Social Accident Insurance (IFA): GESTIS 1023 nce database and International limit values for chemical substances 11 Environment Agency, Section IV 2.4: Documentation and Information Centre substances 12 Substances hazardous to water) 12 Classification for mixtures and used evaluation method according to 15 International [CLP]

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# \* 16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15

Hazard state	Hazard statements		
H304	May be fatal if swallowed and enters airways.		
H315	Causes skin irritation.		
H317	May cause an allergic skin reaction.		
H318	Causes serious eye damage.		
H319	Causes serious eye irritation.		
H411	Toxic to aquatic life with long lasting effects.		
H412	Harmful to aquatic life with long lasting effects.		
H413	May cause long lasting harmful effects to aquatic life.		

#### 16.6. Training advice

No data available

#### 16.7. Additional information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

\* Data changed compared with the previous version.